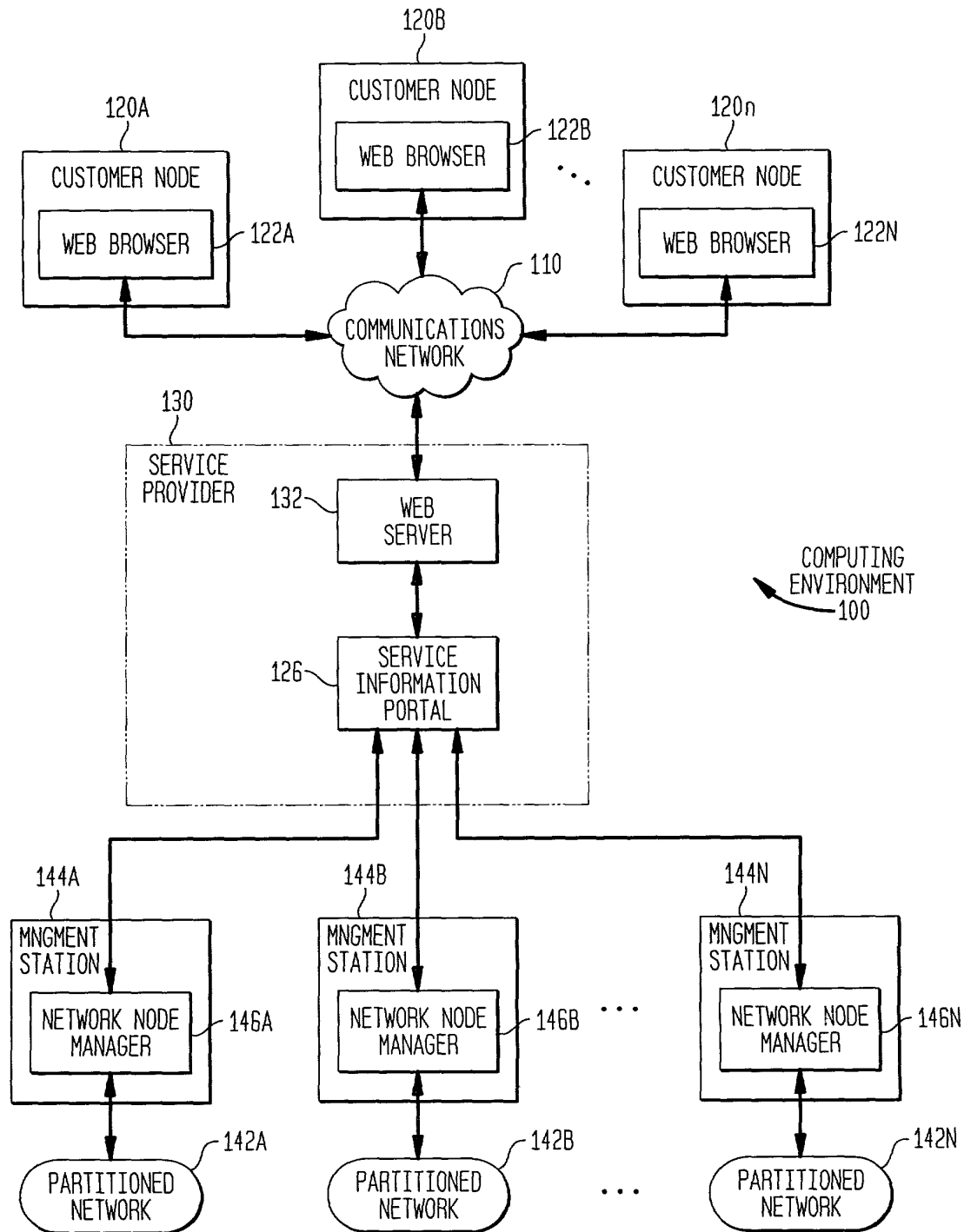


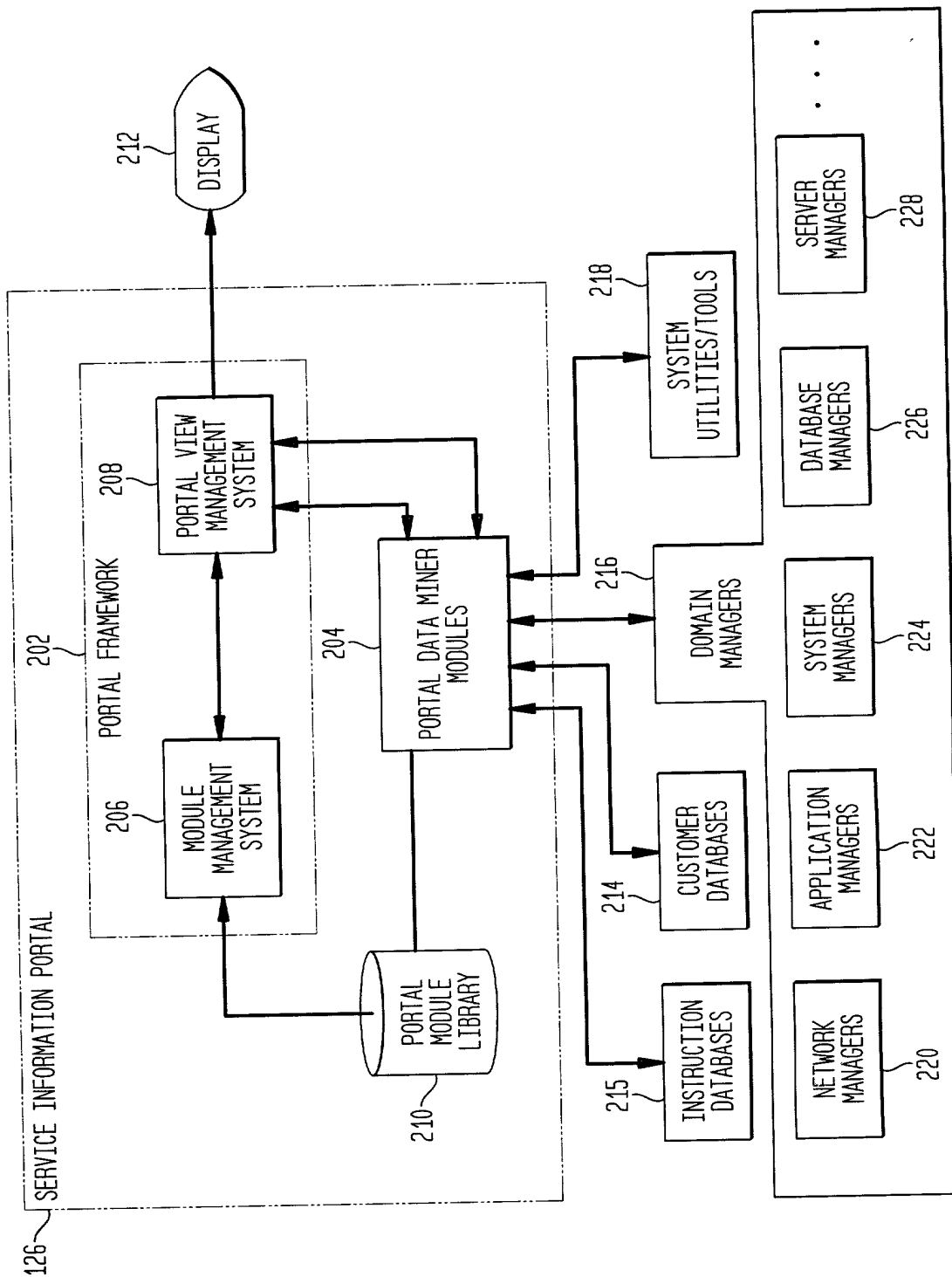
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FIG. 1



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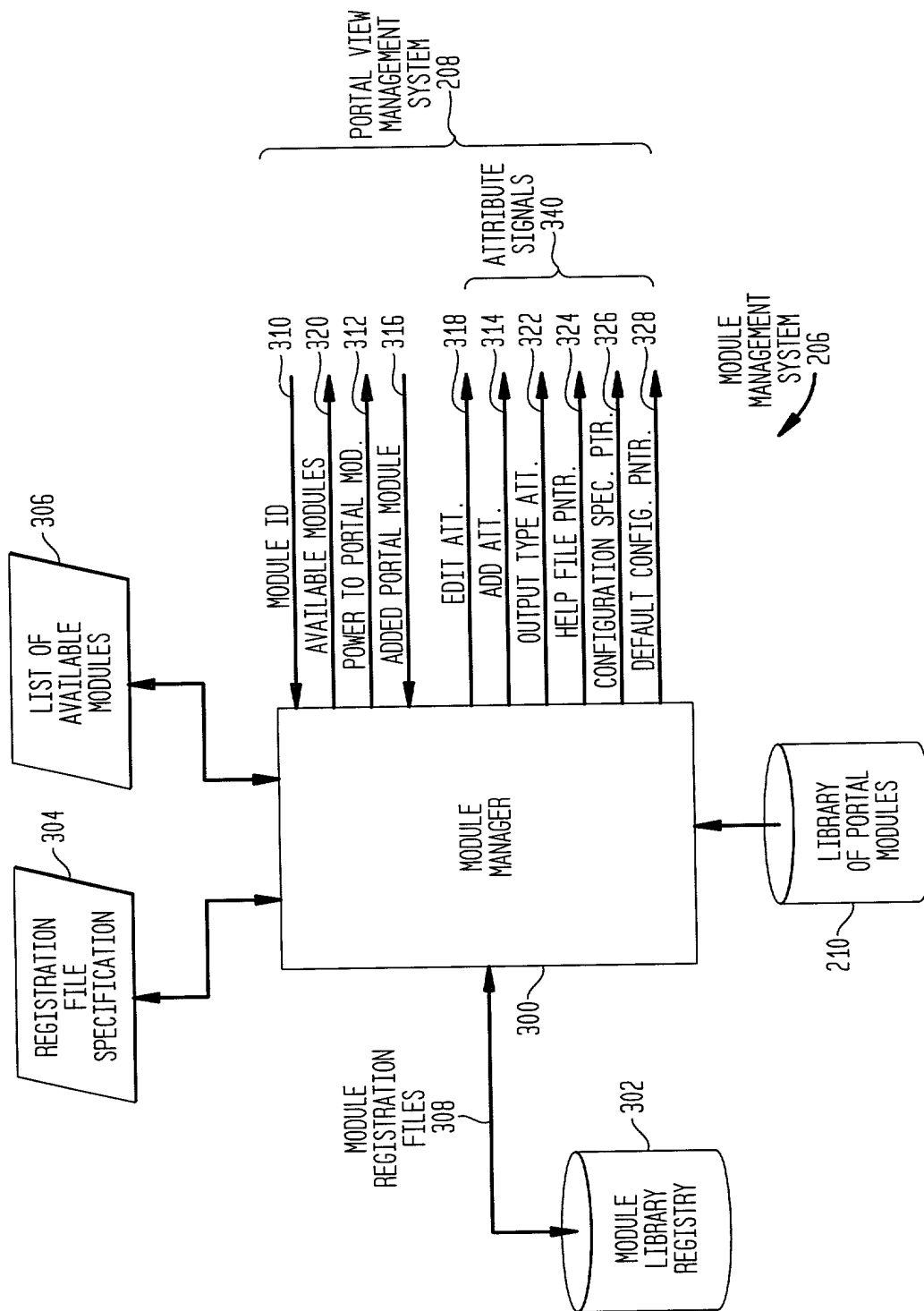
FIG. 2



Inventor(s): Robert Raymond

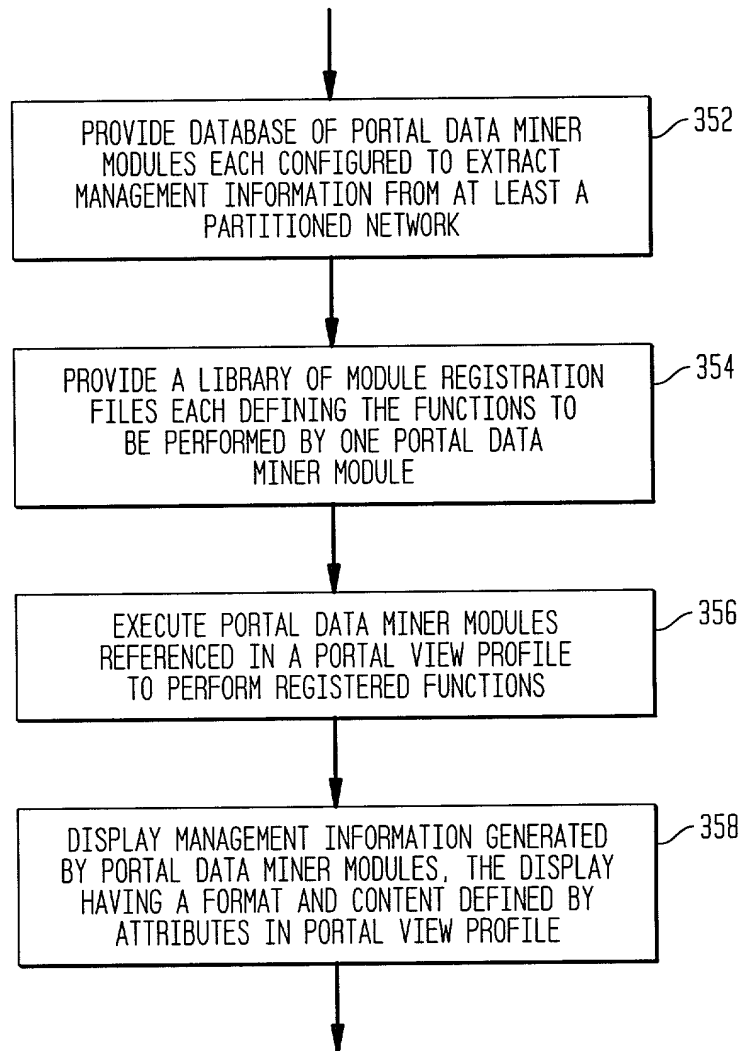
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FIG. 3A



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FIG. 3B



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FIG. 4

MODULE REGISTRATION  
FILE SPECIFICATION

400

```
1 <!-- OVModuleRegistration.dtd -->
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company -->
4 <!-- $Revision: /main/BACCHUS/8 $ -->
5 <!-- $Date: 2001/03/15 00:13 UTC $ -->
6 -----
7 <!ELEMENT ModuleRegistration EMPTY>
8
9 <!ATTLIST ModuleRegistration
10     vendorName      CDATA #IMPLIED
11     vendorURL       CDATA #IMPLIED
12     description     CDATA #IMPLIED
13     version         CDATA #IMPLIED
14     category        CDATA "General"
15     title           CDATA #IMPLIED
16     classid         ID #REQUIRED
17     implementation   CDATA #REQUIRED
18     outputType      CDATA #REQUIRED
19     (narrow|NARROW|wide|WIDE|any|ANY) "narrow"
20     add
21     (1|0|YES|yes|NO|no) "no"
22     edit
23     (1|0|YES|yes|NO|no) "no"
24     help            CDATA #IMPLIED
25     configDTD       CDATA #IMPLIED
26     defaultConfigXML CDATA #IMPLIED>
```

HEADER  
DATA  
402

404

ATTRIBUTE  
LIST  
406

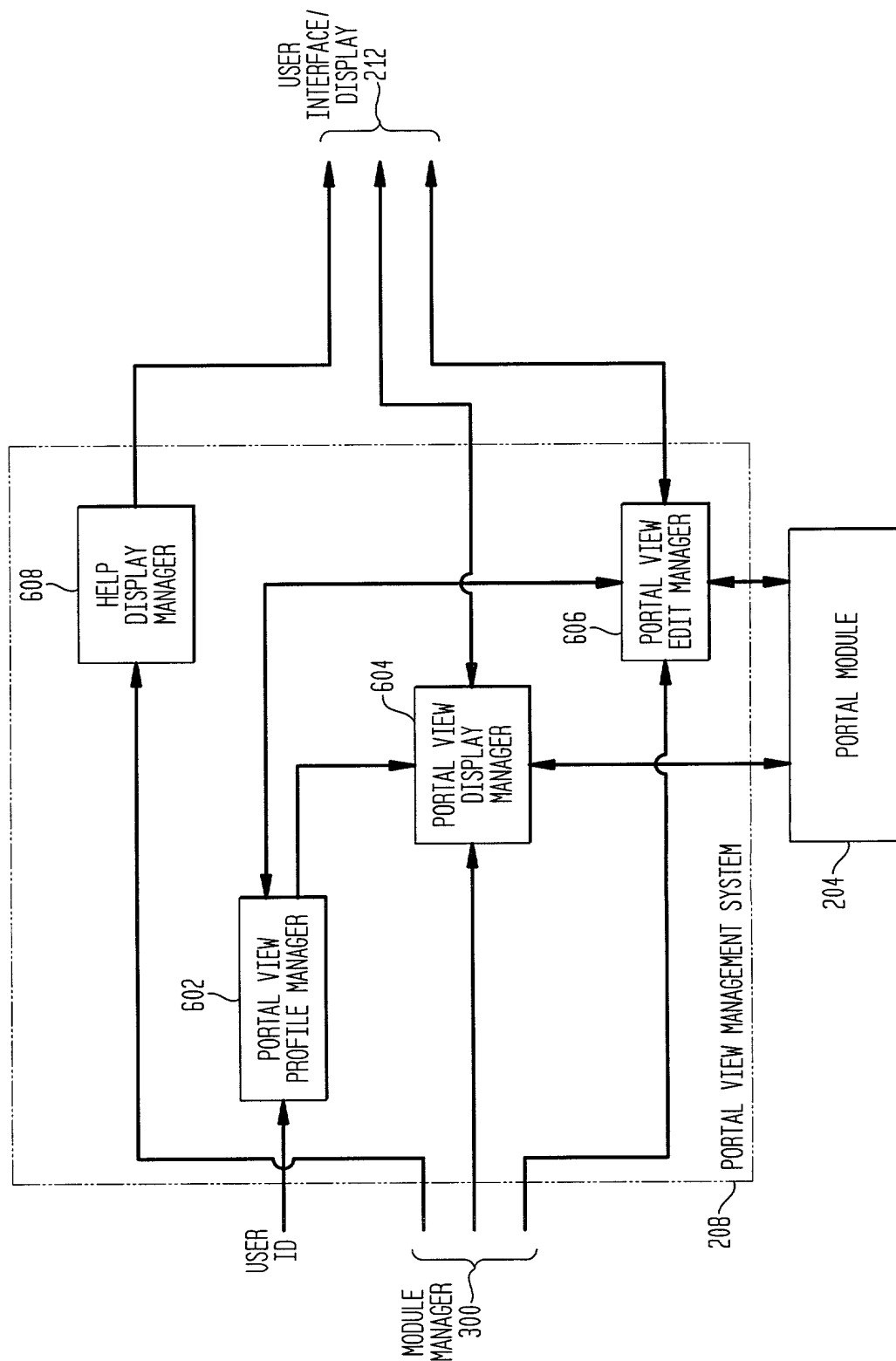
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*FIG. 5*NETWORK HEALTH MODULE  
REGISTRATION FILE  
500  


```
1 <?xml version="1.0" standalone="no"?>
2 <!DOCTYPE ModuleRegistration SYSTEM
3 "OVModuleRegistration.dtd">
4 <ModuleRegistration
5     vendorName  ="Hewlett-Packard
6                 Company"
7     vendorURL   ="http://www.
8                 openview.hp.com"
9     description ="HP OpenView SIP Network
10                Device Health Module"
11     version     ="2.0"
12     category    ="NNM"
13     title       ="Network Device
14                Health"
15     classid     ="com.hp.ov.portal.
16                modules.health"
17     implementation
18                ="/servlet/com.hp.ov.
19                portal.modules.health.
20                HealthServlet"
21     outputType  ="narrow"
22     add         ="yes"
23     edit        ="yes"
24     help        ="/OvSipDocs/C/help/
25                NNM/healthView.html"
26     configDTD   ="OVNetworkHealth.dtd"
27     defaultConfigXML
28                ="defaults/
29                OVDefaultNetHealth.
30                xml"
31 />
```

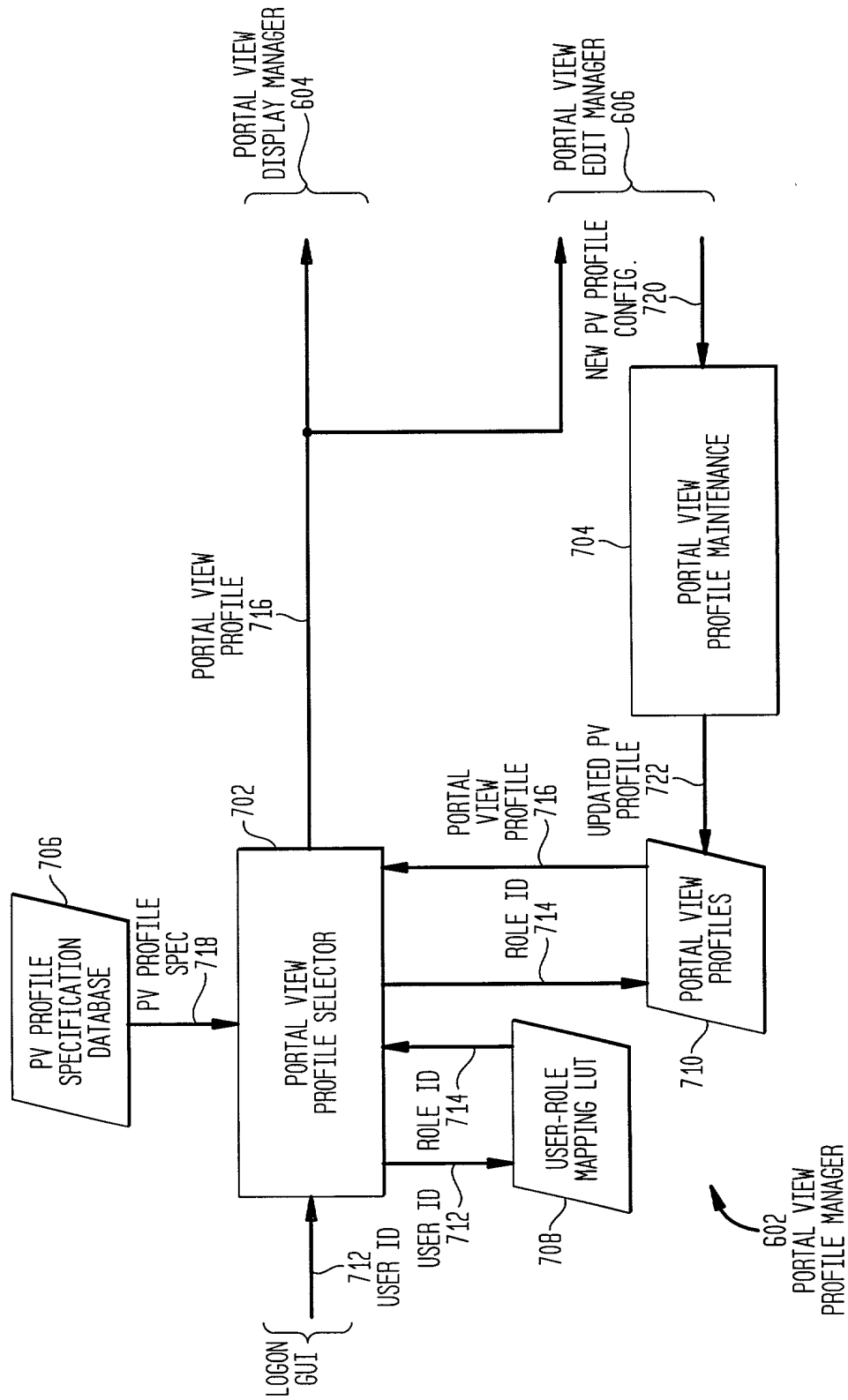
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FIG. 6



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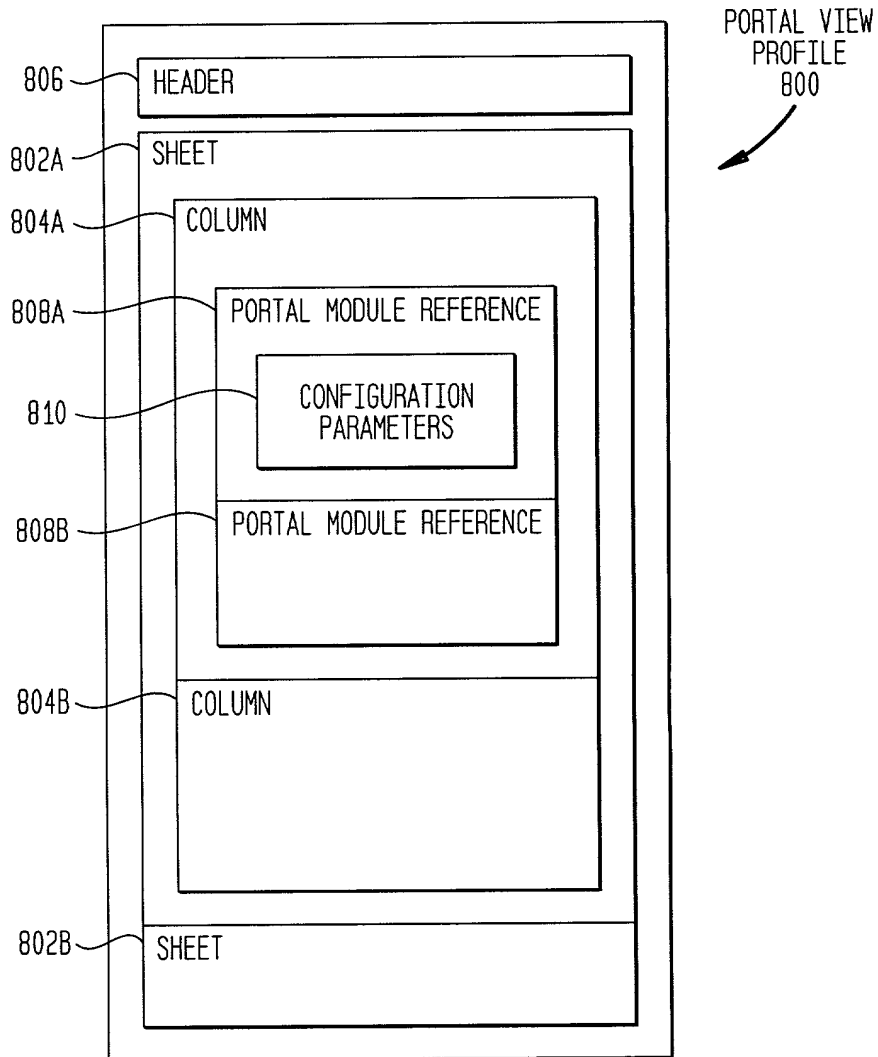
FIG. 7





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FIG. 8



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FIG. 9

NETWORK HEALTH PORTAL  
VIEW PROFILE SPECIFICATION

900

```
1 <!-- OVNetworkHealth.dtd
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company
4 <!-- $ Revision: /main/BACCHUS/7 $
5 <!-- $ Date: 2001/04/11 20:41 UTC $
6 <!--
7 <!ELEMENT NetworkHealth (Summary+)>
8 <!ATTLIST NetworkHealth
9     showRawData      (yes|no|YES|NO|1|0) "no"
10    showUnknown      (yes|no|YES|NO|1|0) "no"
11 >
12
13 <!ELEMENT Summary (Component+,
14 (NodeSelection | InterfaceSelection))>
15 <!ATTLIST Summary
16     id          CDATA #REQUIRED
17     title       CDATA #REQUIRED
18     display      (yes|no|YES|NO|1|0) "yes"
19     displayDepth (1|2|3) "3"
20 >
```

HEADER  
902

NETWORK HEALTH  
ELEMENT SPEC.  
904

SUMMARY ELEMENT  
SPEC.  
906

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*FIG. 10*

FIGURE 10A
FIGURE 10B
FIGURE 10C
FIGURE 10D
FIGURE 10E
FIGURE 10F
FIGURE 10G

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FIG. 10A

PORTAL  
VIEW PROFILE  
1000

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <!DOCTYPE PortalView SYSTEM
3  ".../PortalView.dtd">
4  <PortalView
5  colorScheme="/OvSipDocs/styles/default.css"
6  defaultSheetID="NetworkSheet"
7  refreshRate="5000" showDateTime="yes"
8  showUserName="yes" userName="Any User">
9      <Sheet id="NetworkSheet" title="Network">
10         <Column width="narrow">
11             <ModuleInstance
12 classid="com.hp.ov.portal.modules.health"
13 display="yes" id="NetworkHealth"
14 rollupState="down">
15         <NetworkHealth showRawData="no"
16 showUnknown="no">
17             <Summary display="no"
18 displayDepth="3" id="InterfaceHealth"
19 title="Interface Health">
20                 <Component href="#IfStatus"
21 vital="yes" weight="2"/>
22                 <Component href="#IfUtil"
23 vital="no" weight="1"/>
24                 <Component href="#IfInErrors"
25 vital="no" weight="1"/>
26                 <Component
27 href="#IfOutErrors" vital="no" weight="1"/>
28                 <InterfaceSelection
29 id="AllInterfaces" op="AND" title="All
30 Interfaces"/>
31             </Summary>

```

HEADER  
1002PORTAL VIEW  
WINDOW  
ATTRIBUTES  
1004PORTAL MODULE  
REFERENCE  
1006A

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```

32      <Summary display="yes"
33 displayDepth="3" id="RouterHealth"
34 title="Router Health">
35      <Component href="#IfHealth"
36 vital="no" weight="1"/>
37      <Component
38 href="#CiscoCpuUtil" vital="no" weight="1"/>
39      <NodeSelection id="Routers"
40 op="AND" title="Routers">
41      <CapabilityFilter op="OR">
42      <Capability
43 field="isRouter" value="true"/>
44      </CapabilityFilter>
45      </NodeSelection>
46      </Summary>
47      <Summary display="no"
48 displayDepth="3" id="KeyDeviceHealth"
49 title="Key Device Health">
50      <Component href="#IfHealth"
51 vital="no" weight="1"/>
52      <NodeSelection
53 id="KeyDevices" op="AND" title="Key Devices">
54      <CapabilityFilter op="OR">
55      <Capability
56 field="isKeyDevice" value="true"/>
57      </CapabilityFilter>
58      </NodeSelection>
59      </Summary>

```

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FIG. 10C

PORTAL  
VIEW PROFILE  
1000PORTAL MODULE  
REFERENCE  
1006A (CONT)

```

60      <Summary display="no"
61 displayDepth="3" id="CPEHealth" title="CPE
62 Health">
63      <Component href="#IfHealth"
64 vital="no" weight="1"/>
65      <NodeSelection id="CPE"
66 op="AND" title="Customer Premise Equipment">
67      <CapabilityFilter op="OR">
68      <Capability
69 field="isCPE" value="true"/>
70      </CapabilityFilter>
71      </NodeSelection>
72      </Summary>
73      <Summary display="no"
74 displayDepth="3" id="ServerHealth"
75 title="Server Health">
76      <Component href="#IfHealth"
77 vital="no" weight="1"/>
78      <NodeSelection id="Servers"
79 op="AND" title="Servers">
80      <CapabilityFilter op="OR">
81      <Capability
82 field="isServer" value="true"/>
83      </CapabilityFilter>
84      </NodeSelection>
85      </Summary>
86      </NetworkHealth>
87      </ModuleInstance>

```



FIG. 10E

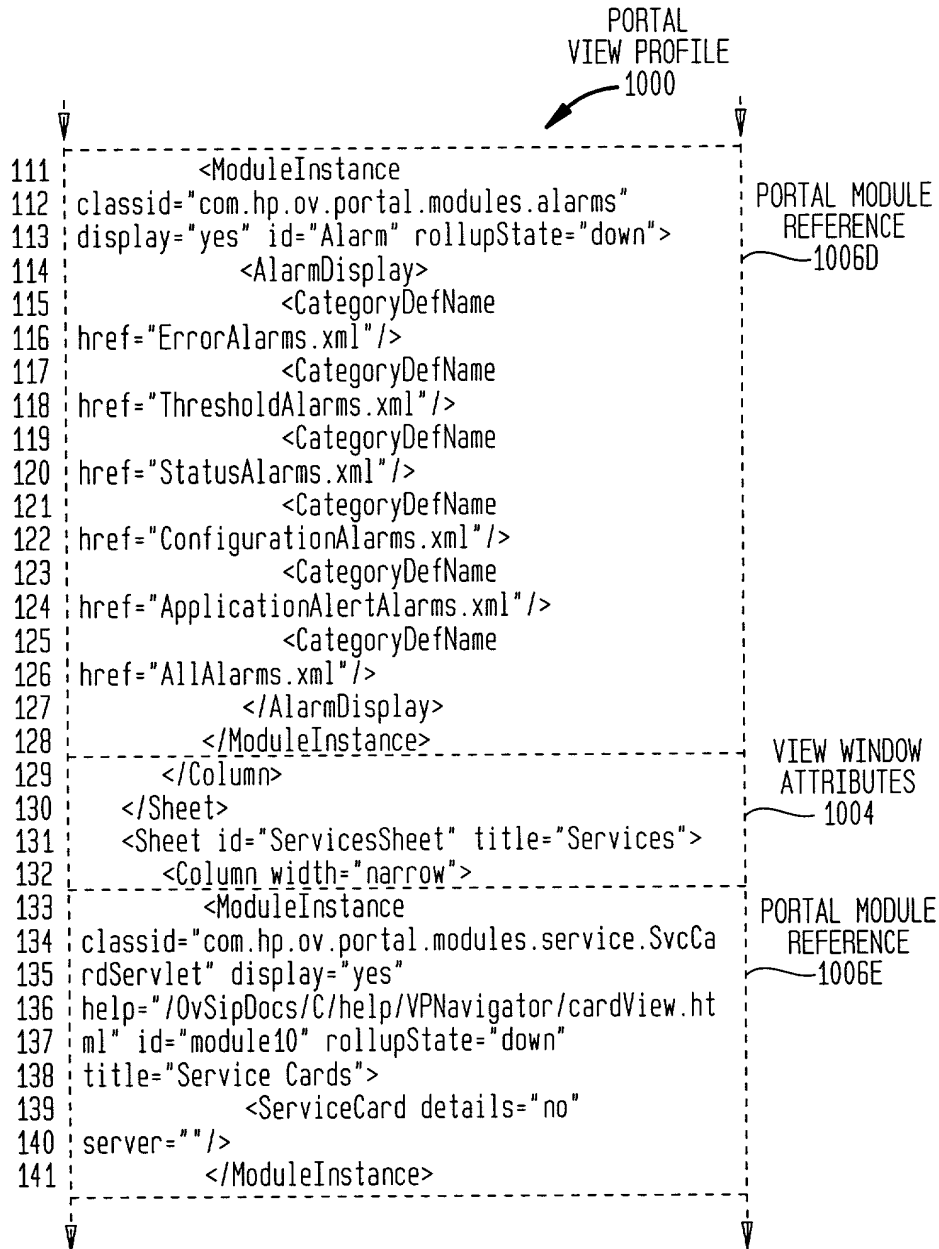
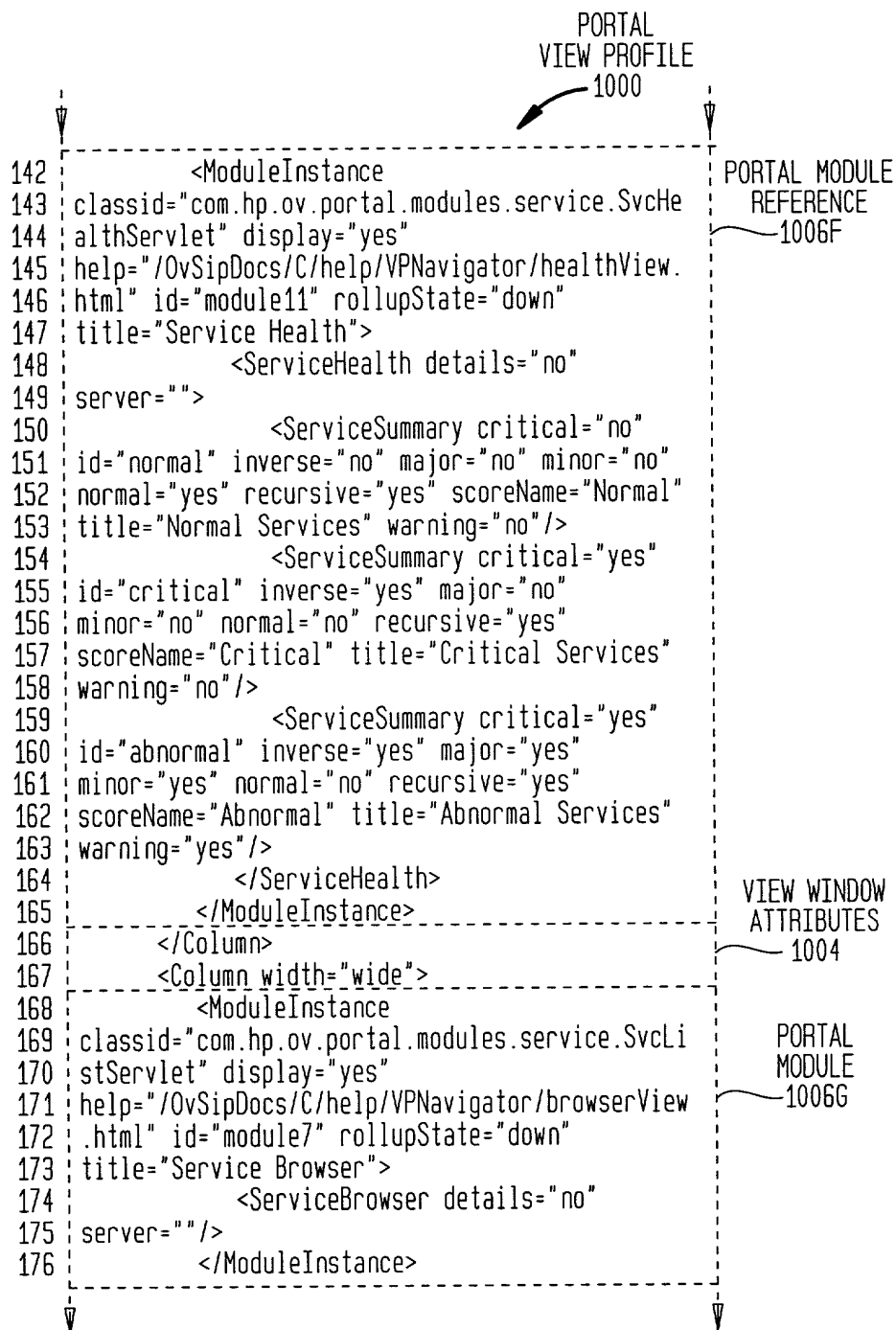


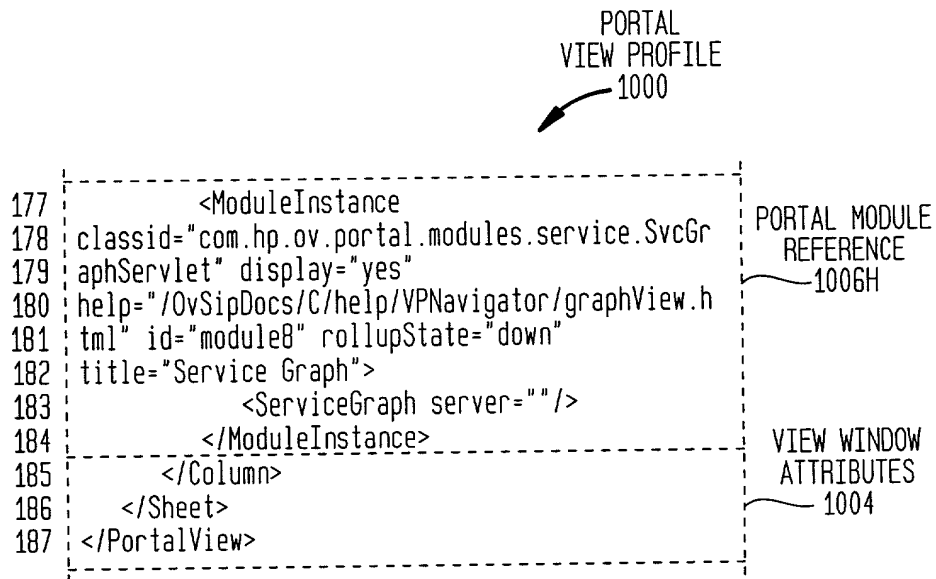


FIG. 10F



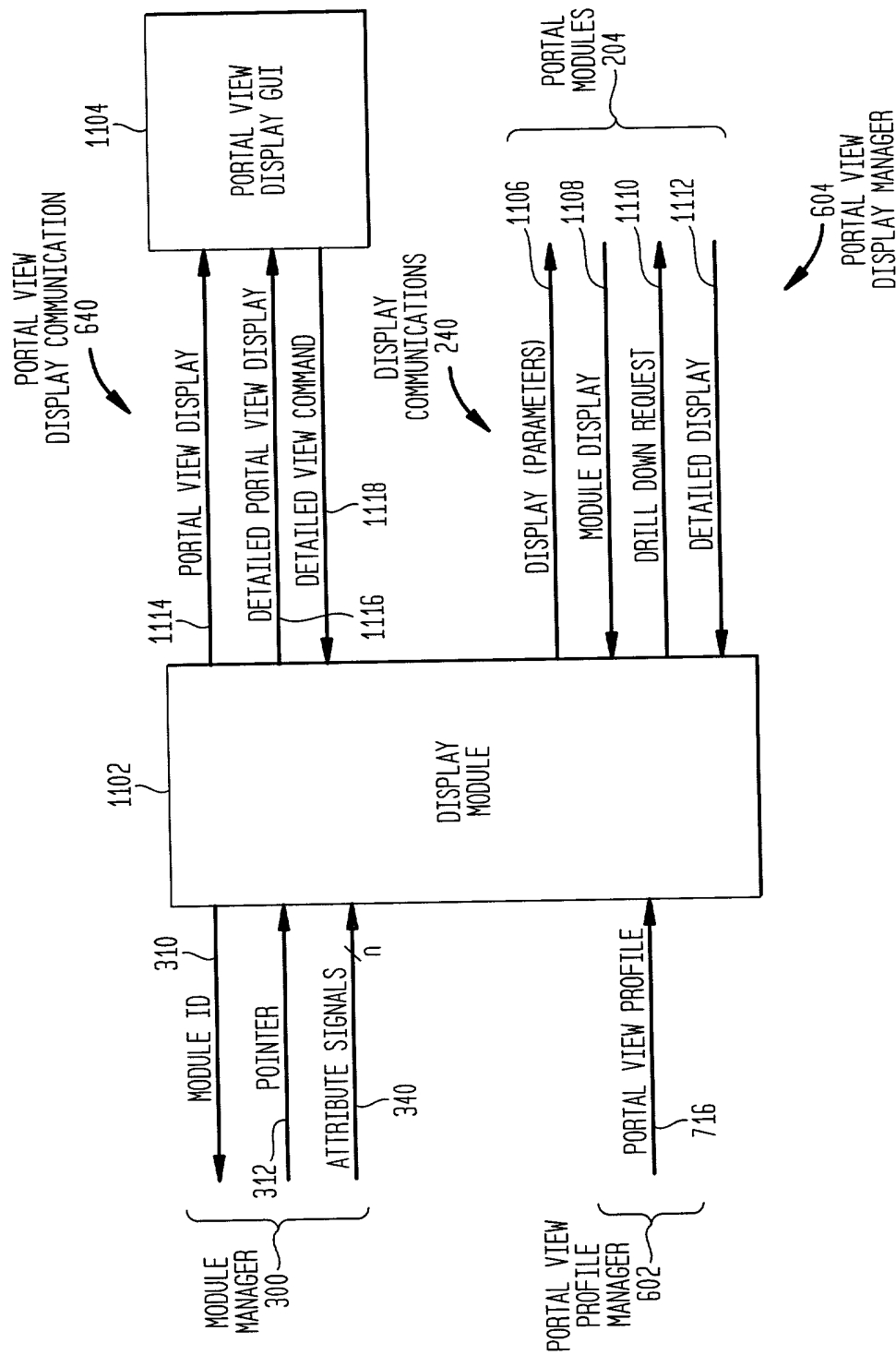
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FIG. 10G



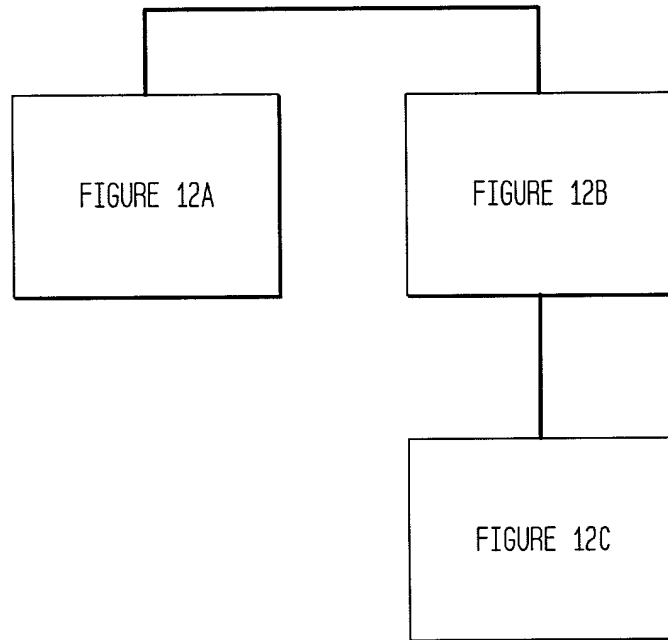
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FIG. 11

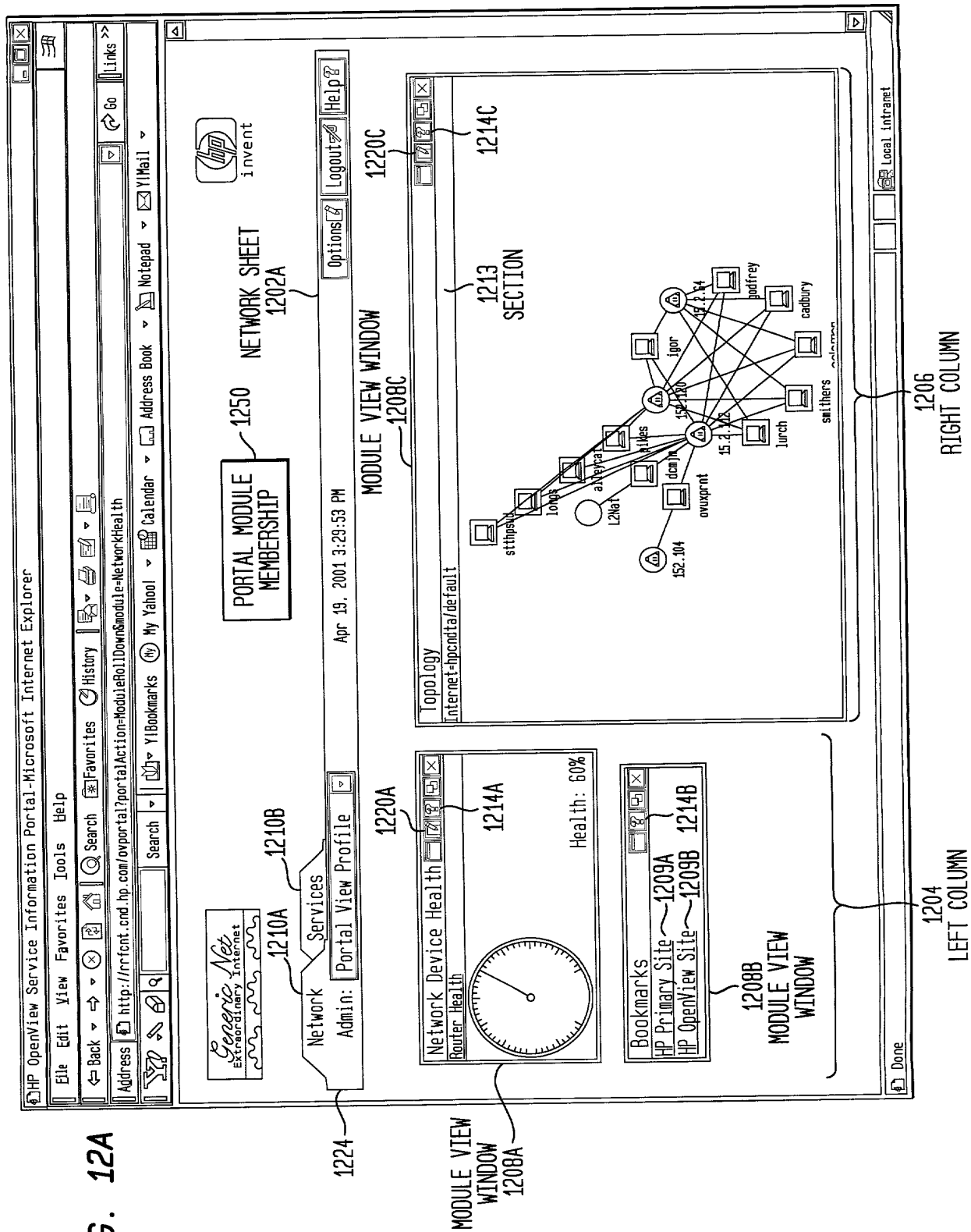


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*FIG. 12*



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FIG. 12B

NETWORK  
 SHEET  
 (CONT)  
 1202A

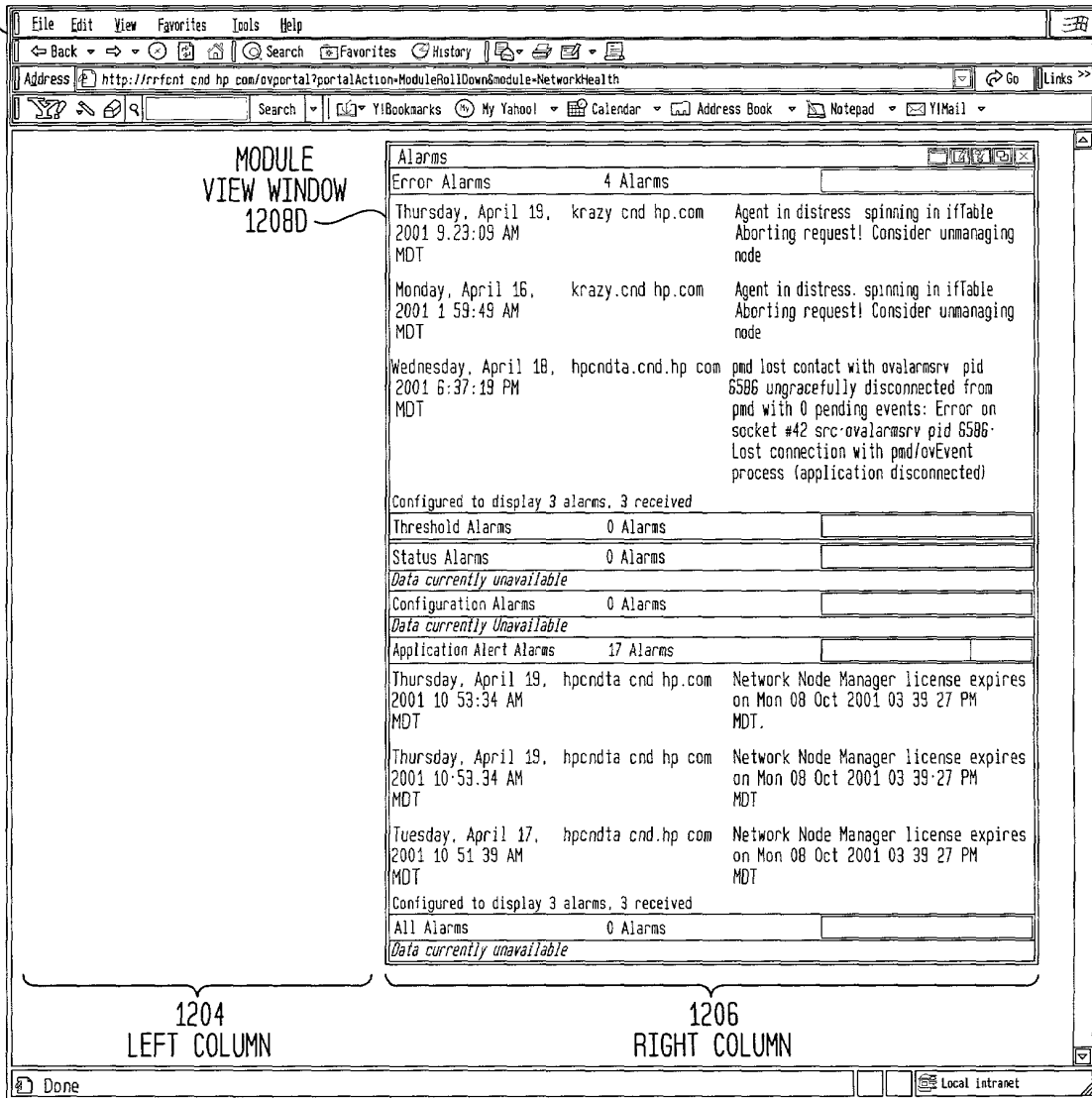
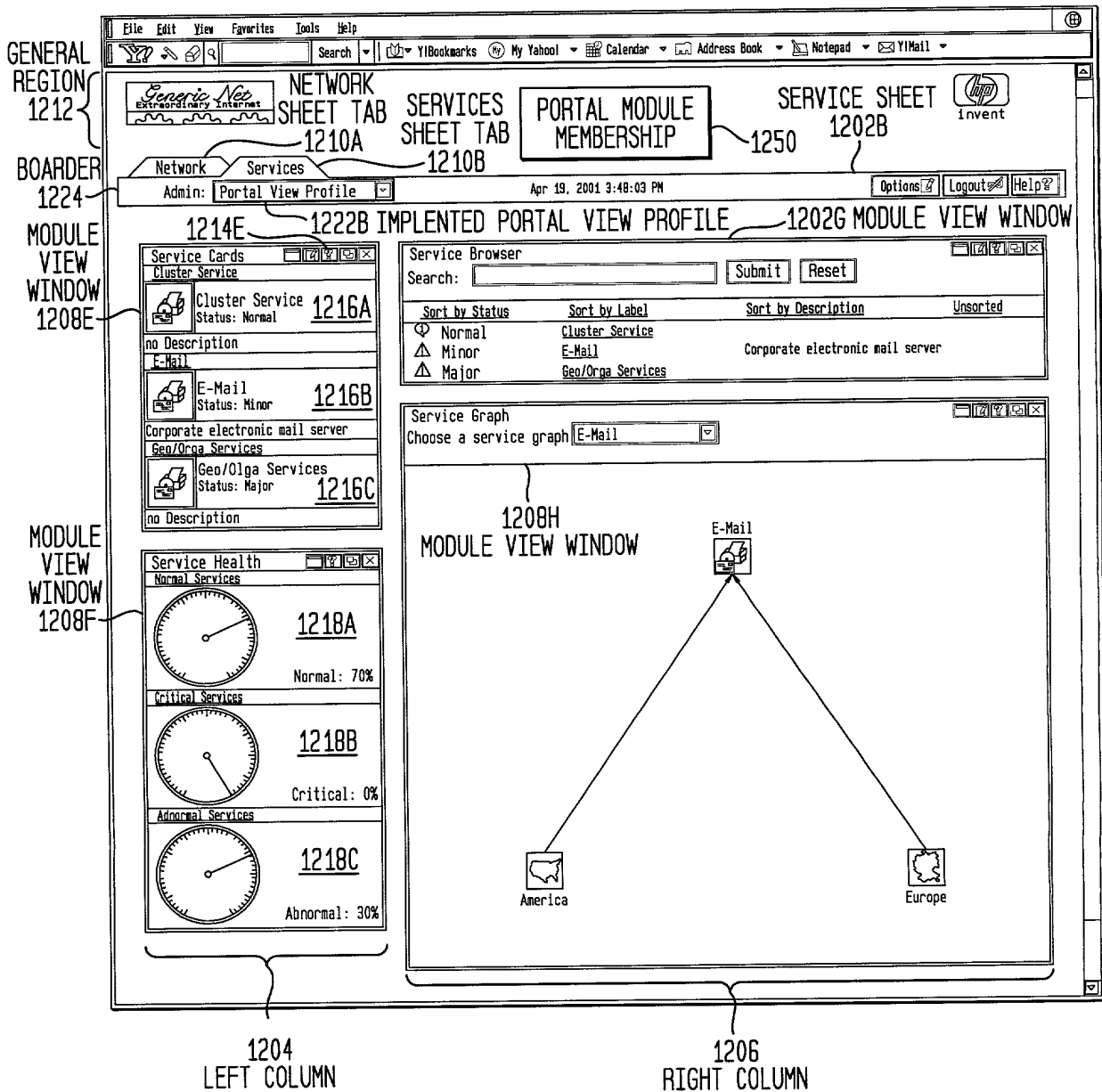


FIG. 12B 09/845430

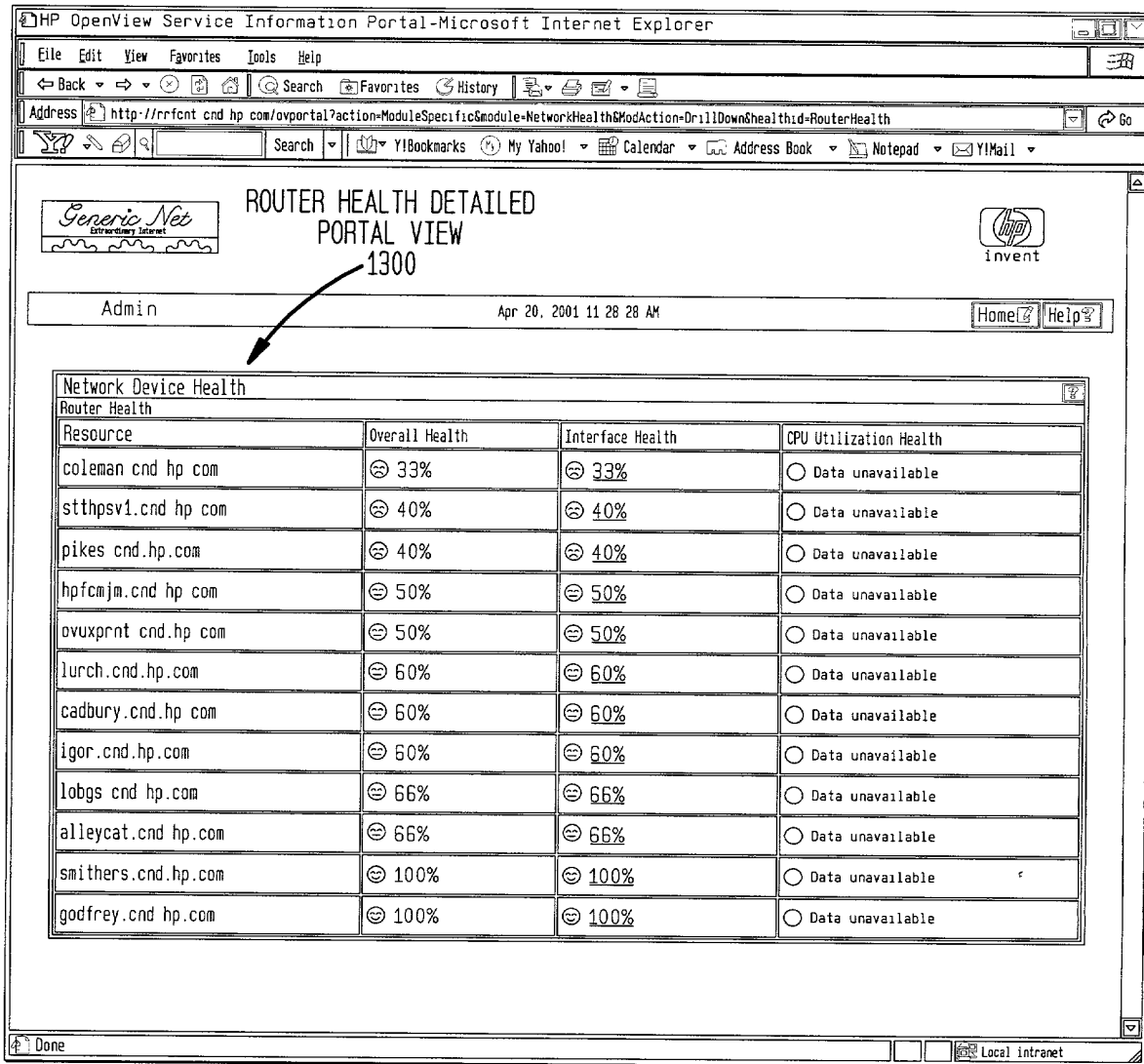
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FIG. 12C



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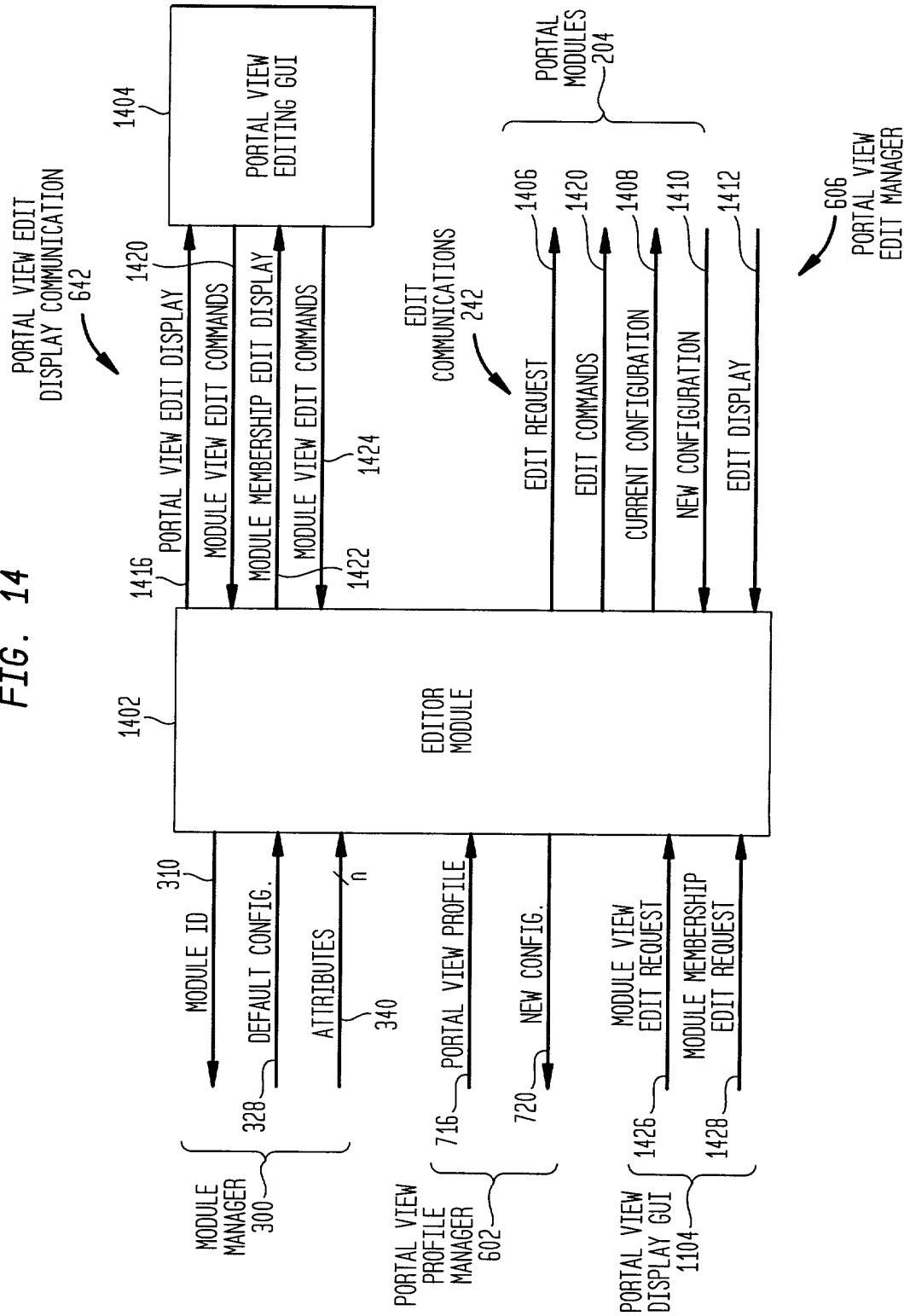
FIG. 13





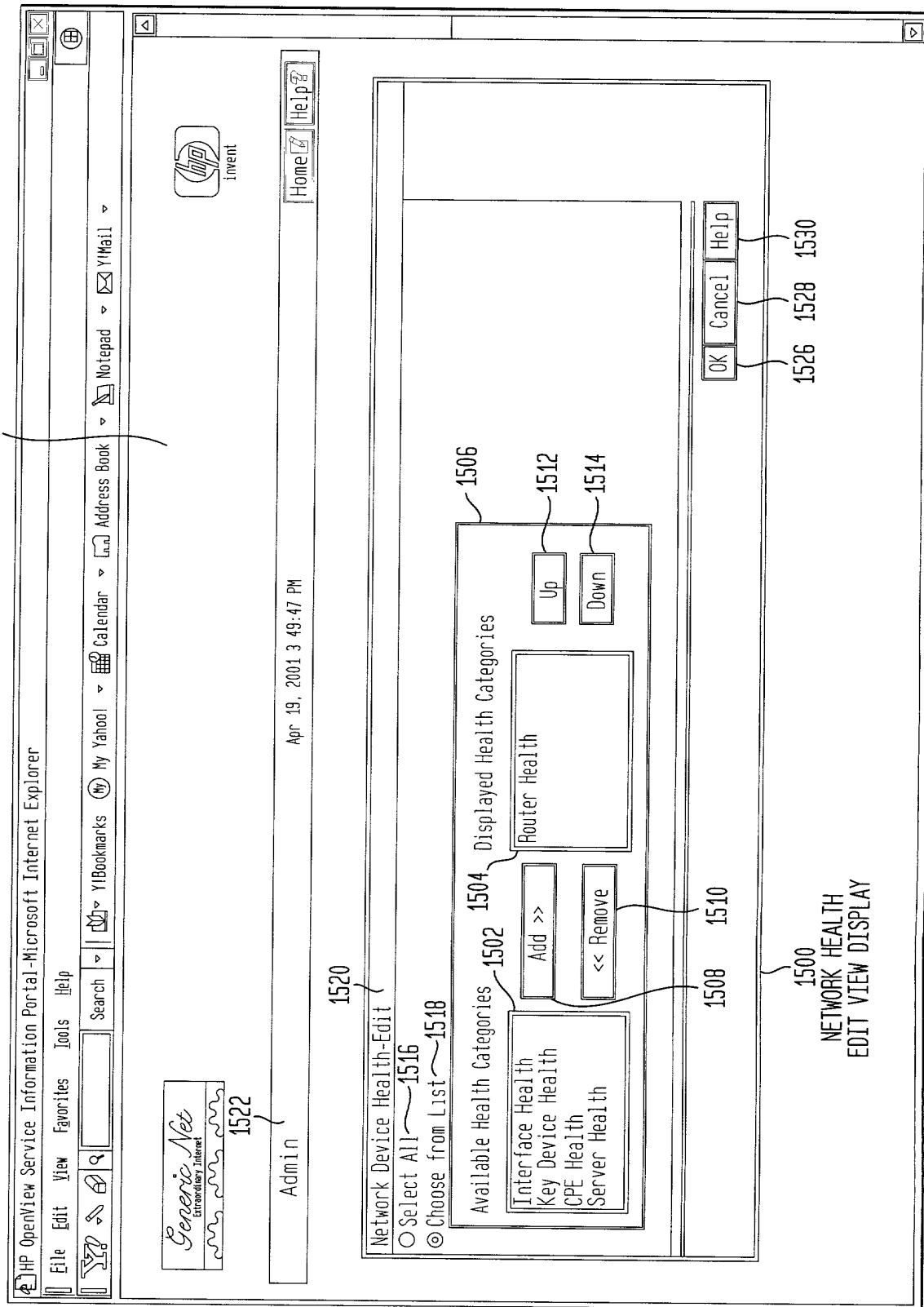
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FIG. 14



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FIG. 15



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FIG. 16

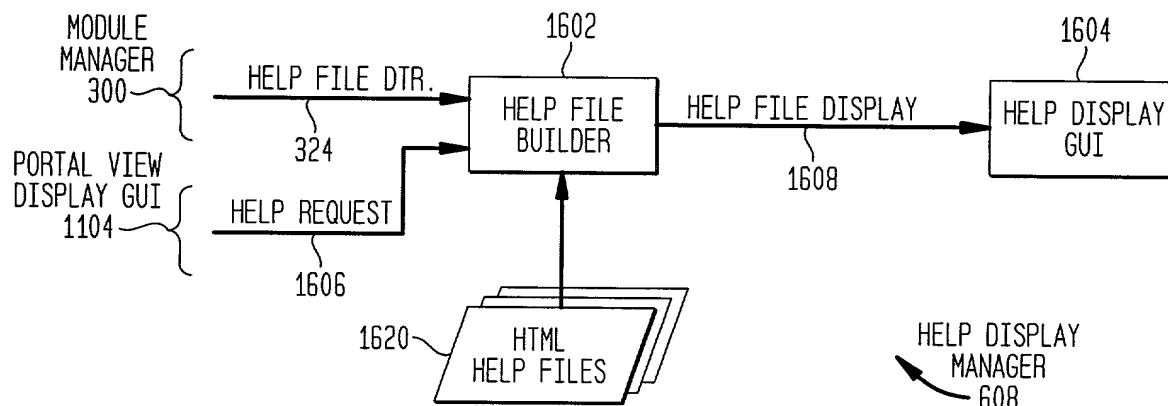
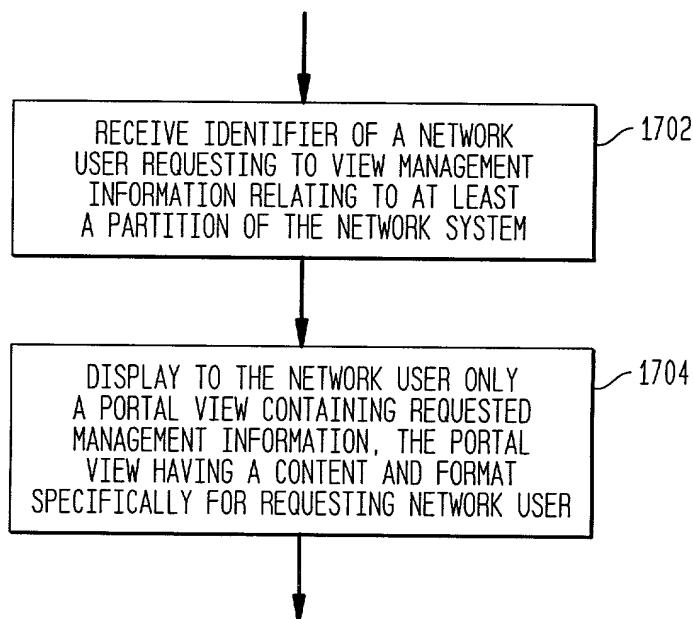
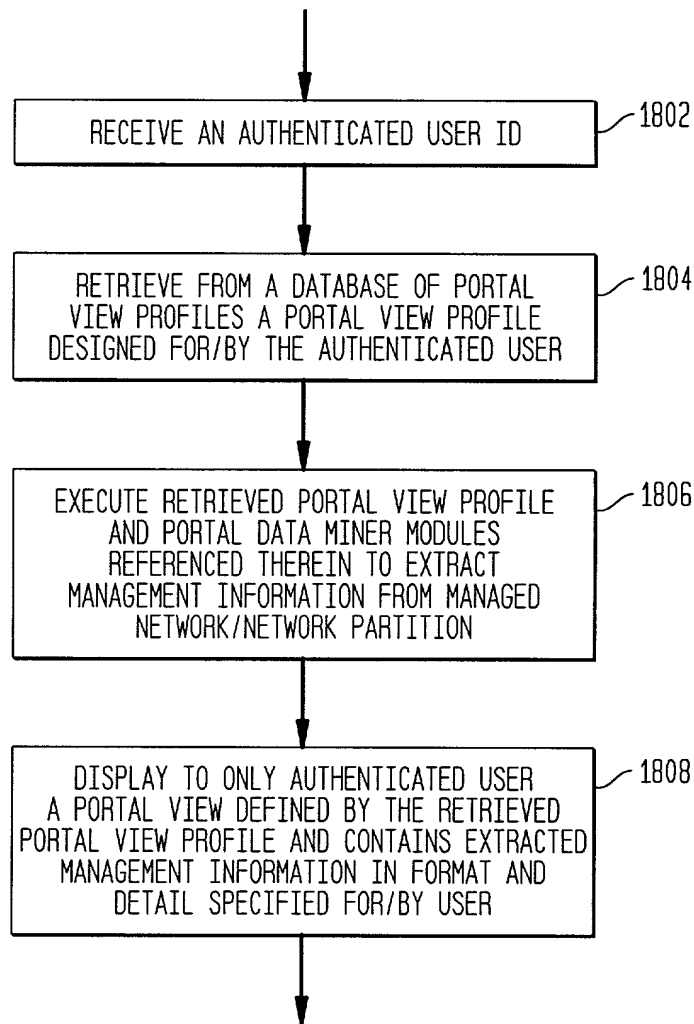


FIG. 17



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*FIG. 18*



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FIG. 19

